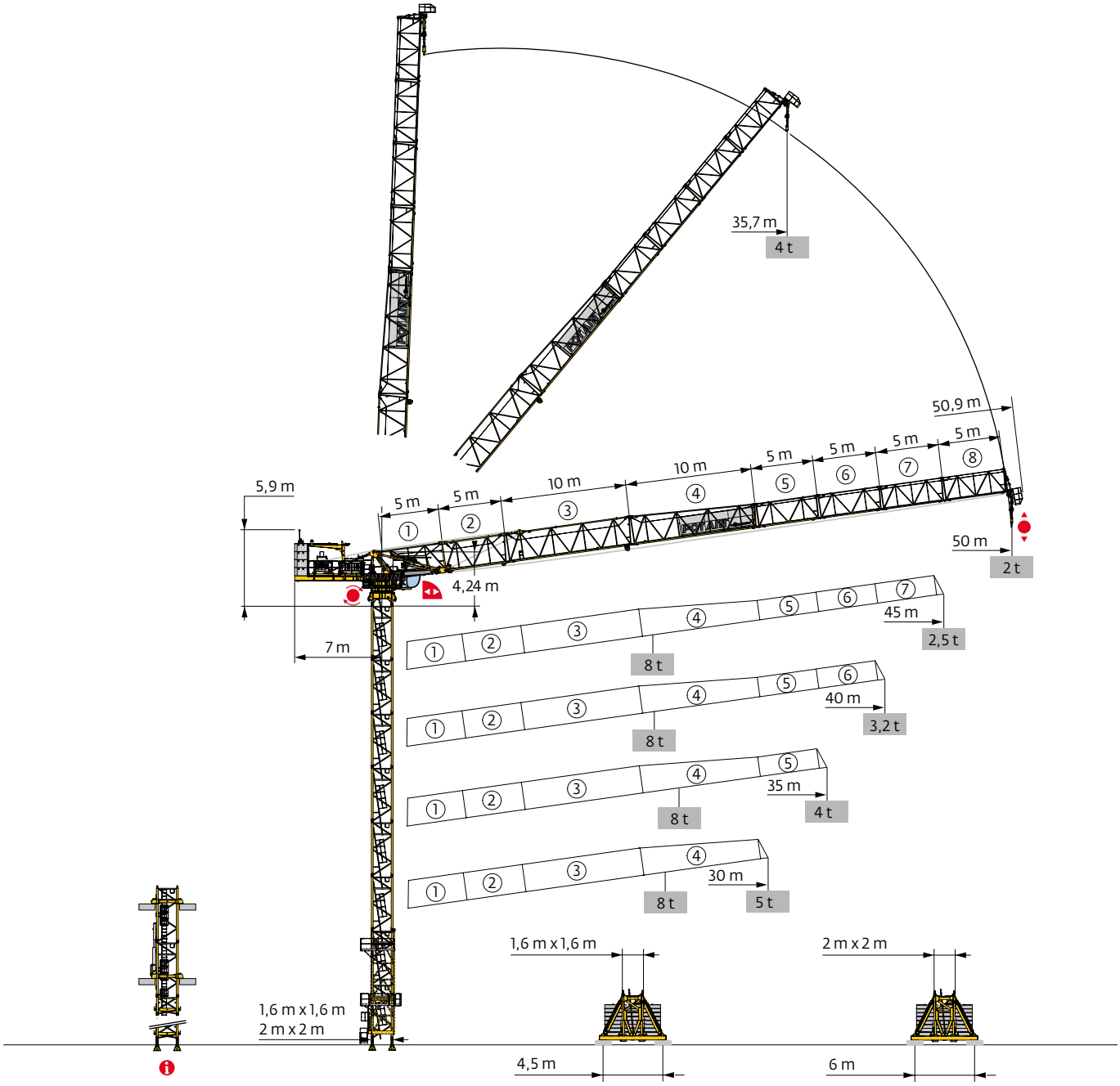
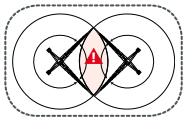
POTAIN®
by Manitowoc

MRH 125



Power Control

Anti-collision system

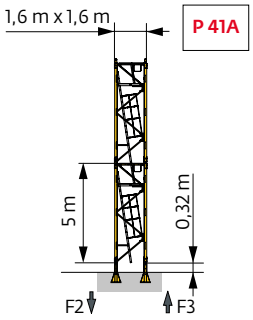


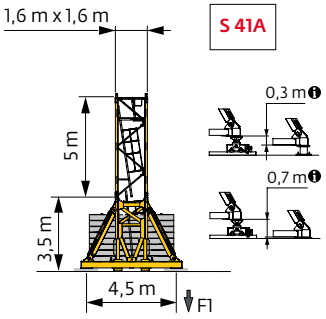
CE EN 14439 C25-D25

Mât - Réactions / Mast - Reaktionskräfte / Mast - Reactions / Mástil - Reacciones / Torre - Reazioni
Tramo - Reacções / Реакция опор мачты

1,6 m - P 41A - C25						
(m)		30	35	40	45	50
	(m)	37,9	34,6	32,9	31,2	29,6
3,33 m		1	0	1	2	0
5 m		6	6	5	4	5
F2 (t)	●	123	121	121	122	121
	■	152	146	154	160	162
F3 (t)	●	92	90	91	87	91
	■	121	116	123	130	133
(m) D25		36,2	34,6	31,2	29,6	26,2

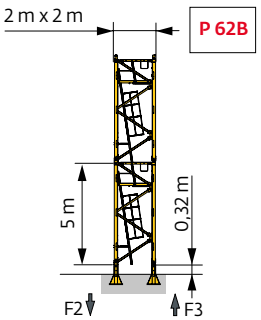
1,6 m - S 41A - C25						
(m)		30	35	40	45	50
	(m)	39,4	37,7	34,4	31,1	29,4
3,33 m		2	0	2	1	2
5 m		5	6	4	4	3
F1 (t)	●	81	82	80	80	79
	■	89	91	90	87	89
(m) D25		32,7	29,4	26,1	22,7	21,1

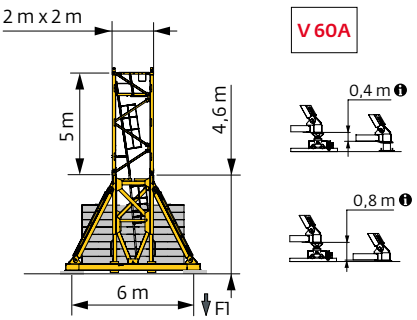




2 m - P 62B - C25						
(m)		30	35	40	45	50
	(m)	57,9	56,2	54,6	52,9	51,2
3,33 m		1	2	0	1	2
5 m		10	9	10	9	8
F2 (t)	●	134	136	134	136	134
	■	291	296	298	303	305
F3 (t)	●	99	96	99	97	99
	■	255	260	263	268	270
(m) D25		51,2	49,6	46,2	44,6	42,9

2 m - V 60A - C25						
(m)		30	35	40	45	50
	(m)	48,8	47,2	43,8	42,2	38,8
3,33 m		0	1	0	1	0
5 m		8	7	7	6	6
F1 (t)	●	86	88	87	87	83
	■	114	117	112	115	109
(m) D25		40,5	37,2	33,8	32,2	30,5

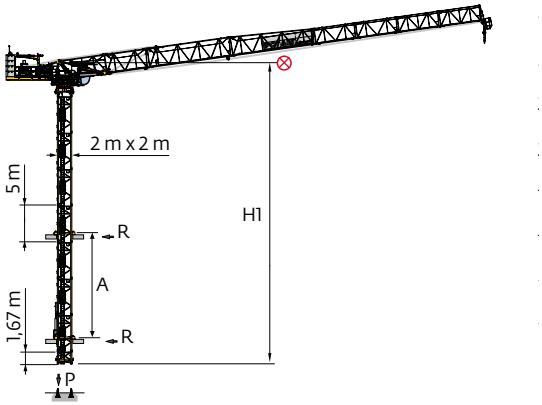




Accès motorisés types Cab-IN et TCL : compositions de mâture, de lest de base et réactions adaptées. / Motorisierter Zugang vom Typ Cab-IN und TCL: Mastzusammensetzung, Grundballast und Reaktionskräfte sind angepasst. / Motorized accesses of Cab-IN and TCL types: Adapted mast composition, base ballast and reactions. / Acceso a cabina con elevador tipo Cab-IN (interno) y tipo TCL (externo): Adaptación de composición de mástil, lastre de base y reacciones. / Accessi motorizzati di tipo Cab-IN e TCL: composizioni elementi torre, zavorre di base e reazioni aggiornate. / Acessos motorizados tipo Cab-IN e TCL: composições de coluna, lastro da base e reacções adaptadas. / Лифты Cab-IN и TCL для подъема крановщиков: адаптированная композиция мачты, базовый балласт и нагрузки.

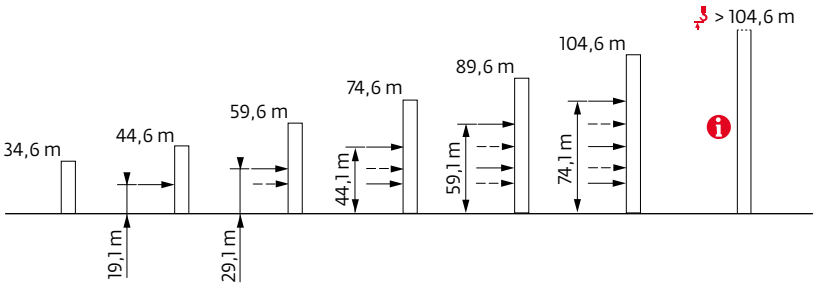
2 m - B 60A - C25					
(m)	30	35	40	45	50
(m)	55,9	54,2	52,6	49,2	42,6
A (m)	19,5 → 23	19,5 → 22,5	20,5 → 21,5	19,5 → 20	16,5 → 16,5
3,33 m	0	1	2	1	2
5 m	10	9	8	8	7
1,67 m	1	1	1	1	1

B 60A - C25

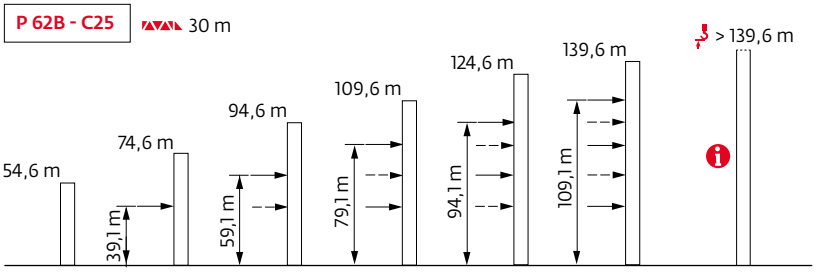


Ancrages / Verankerungen / Anchorages / Anclajes / Ancoraggi
Ancoragem / Нкера

P 41A - C25 30 m



P 62B - C25 30 m



Lest de base / Grundballast / Base ballast / Lastre de base / Zavorra di base
Lastro da base / Базовый Балласт

(t) / 1,6 m - S 41A - - C25						
(m)		30	35	40	45	50
↕ (m)	39,4	114				
	37,7	108	114			
	34,4	102	108	114		
	31,1	90	102	108	114	
	29,4	90	96	102	108	114
	24,4	78	84	90	96	102
	19,4	66	72	78	84	90
	14,4	54	60	66	72	78

(t) / 2 m - V 60A - - C25						
(m)		30	35	40	45	50
↕ (m)	48,8	132				
	47,2	120	132			
	43,8	96	120	132		
	42,2	84	108	120	132	
	38,8	72	84	96	120	132
	33,8	60	72	72	84	108
	28,8	48	60	60	72	72
	23,8	48	48	48	60	60
	18,8	36	36	48	48	48
	13,8	36	36	36	36	48

Courbes de charges / Lastkurven / Load curves / Curvas de cargas / Curve di carico
Curvas de carga / Кривые нагрузок

(m)			17	20	22	25	27	30	30,2	32	35	35,1	37	40	40,1	42	45	m
	8 t	4 t																
45	4,3 → 21,6	33,4 - 34	8	8	7,8	6,5	5,7	4,8	-	4,3	3,8	-	3,4	2,9	-	2,65	2,25	t
40	4,1 → 21,6	33,4 - 34,1	8	8	7,8	6,5	5,7	4,8	-	4,3	3,8	-	3,4	2,95	2,95	t		
35	3,8 → 22,5		8	8	8	6,9	6,1	5,2	-	4,7	4	4	t					
30	3,5 → 22		8	8	8	6,6	5,9	5	5	t								

= - 0,14 t max.

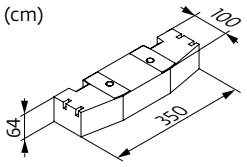
(m)		17	20	22	25	27	30	30,2	32	35	35,1	37	40	40,1	42	45	47	50	m
	4 t																		
50	4,6 → 35,7	4	4	4	4	4	4	4	4	4	4	3,7	3,2	-	2,95	2,55	2,3	2	t
45	4,3 → 35,3	4	4	4	4	4	4	4	4	4	4	3,7	3,2	-	2,9	2,5	t		
40	4,1 → 35,4	4	4	4	4	4	4	4	4	4	4	3,7	3,2	3,2	t				
35	3,8→ 35,1	4	4	4	4	4	4	4	4	4	4	t							
30	3,5 → 30,2	4	4	4	4	4	4	4	t										

Poids de flèche & lest de contre-flèche / Auslegergewicht & Gegenauslegerballast / Jib weight & counter-jib ballast
Peso de flecha y lastre de contra-flecha / Peso del braccio & zavorra di contro-braccio / Peso da lança & lastro da contra lança
Вес стрелы и балласт контр-стрелы

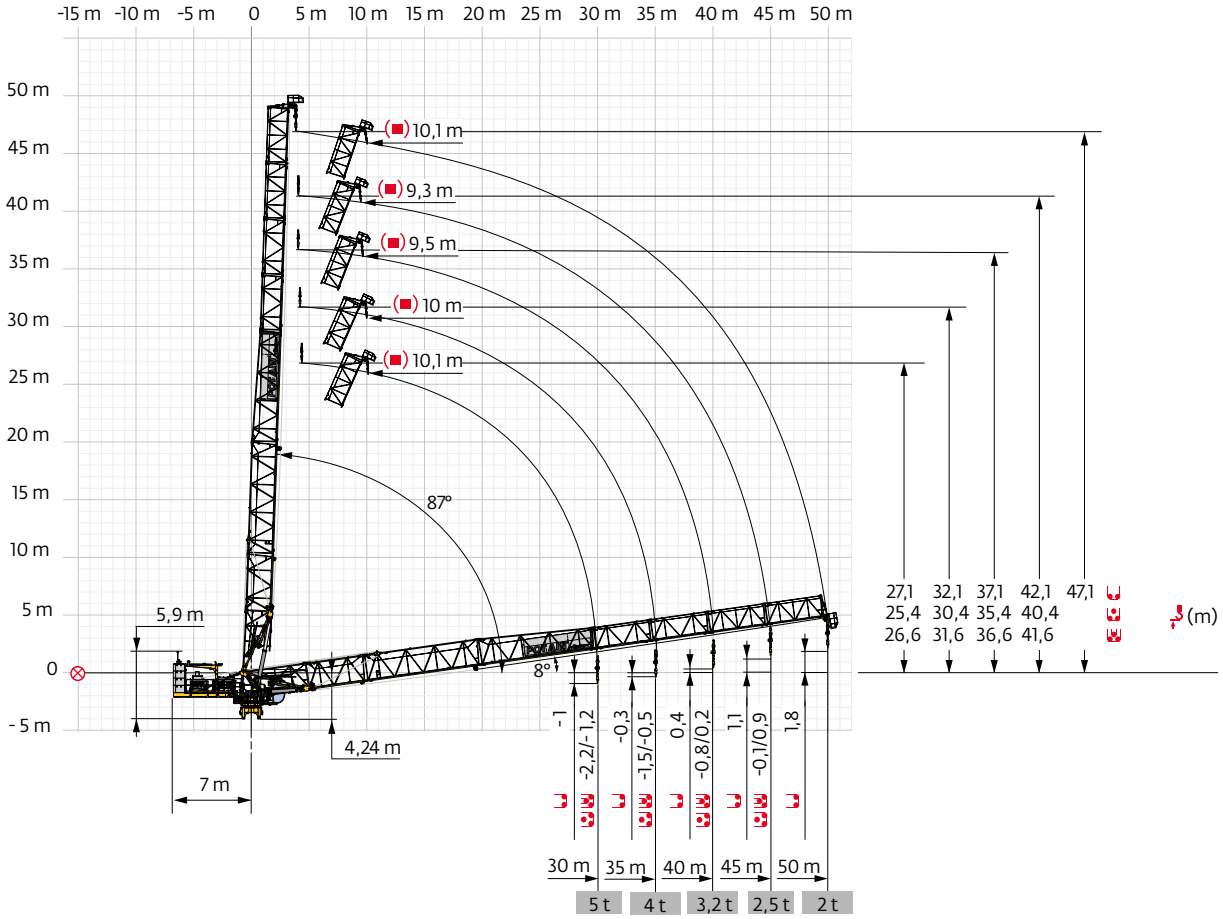
	(kg) (+/- 5%) ② ---> ⑧			
			4750 kg	(kg)
50 m	5845	-	4	19000
45 m	5540	5720	4	19000
40 m	5185	5365	4	19000
35 m	4790	4970	4	19000
30 m	4315	4495	4	19000

CCL - 4750 kg

(cm)

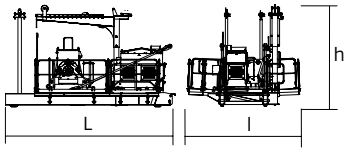
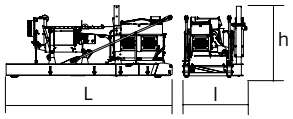
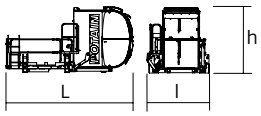
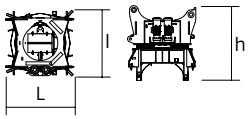
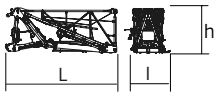
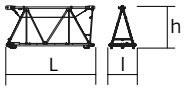
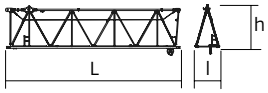
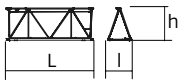
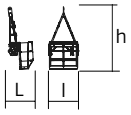
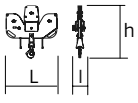
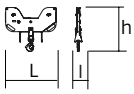
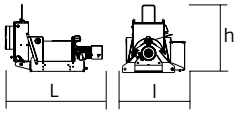


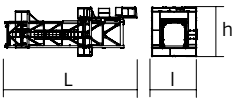
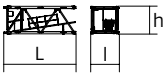
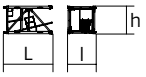
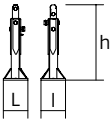
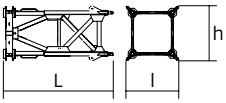
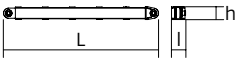
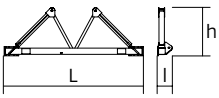
Flèche relevée / Ausleger in Steilstellung / Luffing jib / Flecha izada / Braccio impennato
Lança inclinada / Маховая стрела



Encombrement et poids / Abmessungen und Gewicht / Dimensions and weight / Dimensiones y peso / Ingombro e peso
dimensões e pesos / габаритные размеры и вес

Partie tournante / Drehender Kranteil / Slewing crane part / Parte giratoria
Parte rotante / Parte rotativa / Поворотная часть : 50 m - - 33 LVF

Partie tournante / Drehender Kranteil / Slewing crane part Parte giratoria / Parte rotante / Parte rotativa Поворотная часть			**L (m)**	**l (m)**	**h (m)**	**kg** (+/- 5%)
Contre-flèche / Gegenausleger Counter-jib / Contra-flecha Controbraccio / Contra-lança Контр-стрела		33 LVF 50 LVF	5,89	3,93	3,53	5770 6230
		33 LVF 50 LVF	5,79	2,25	2,49	5310 5770
Cabine / Kabine Cab / Cabina Cabina / Cabina Кабина		V140 SR	4,85	2,37	2,5	1700
Pivot / Krankopf Towerhead / Pivote Portaralla / Pivot Секция поворотной части		1,6 m 2 m	2,15 2,31	2,06 2,39	2,36 2,36	4700 5765
Elément de flèche / Auslegerelement Jib section / Elemento de flecha Elemento di braccio / Elemento de lança Секция стрелы		①	6,24	2,08	2,56	5900
		②	5,23	1,59	2,52	985
		③	10,25	1,44	2,5	1455
		④	10,21	1,42	2,37	1495
		⑤ ⑥ ⑦ ⑧	5,17 5,15 5,15 5,15	1,42 1,39 1,38 1,38	1,96 1,93 1,92 1,91	475 395 355 305
			1,23	1,48	3,05	180
Moufle / Hubflasche Pulley block / Aparejo Bozzello / Cadernal Полиспаст			1,46	0,36	1,5	380
			1,46	0,22	1,25	200
Treuil de levage (+ câble) / Hubwerk (+ Seil) Hoisting winch (+ rope) / Mecanismo de elevación (+ cabo) Argano di sollevamento (+ fune) Guincho de elevação (+ cabo) Подъемная лебёдка (+ канатом)		33 LVF 50 LVF	2,34 2,51	1,53 1,53	1,63 1,63	1555 2015

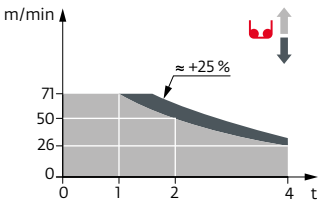
Pylône / Kranturm / Crane tower **Mástil / Torre / Torre** **Башня крана**			**L (m)**	**l (m)**	**h (m)**	**kg** (+/- 5%)
T41 T61		☐1,6 m ☐2 m	10,85 10,83	3,73 4,14	4,1 4,47	7100 9700
K 447B K 447E KM 447E KM 449E K 649B KM 649E		☐1,6 m ☐1,6 m ☐1,6 m ☐1,6 m ☐2 m ☐2 m	10,21 10,21 10,21 10,21 10,23 10,29	1,67 1,62 1,62 1,62 2,07 2,03	1,62 1,62 1,62 1,62 2,03 2,03	3450 3390 3215 3830 5290 4850
K 447A KMT 447A K 449A KMT 449A KR 649A KRMT 649A K 649A KMT 649A		☐1,6 m ☐1,6 m ☐1,6 m ☐1,6 m ☐2 m ☐2 m ☐2 m ☐2 m	5,21 5,21 5,21 5,21 5,23 5,23 5,23 5,23	1,67 1,67 1,67 1,67 2,1 2,1 2,07 2,07	1,62 1,62 1,62 1,62 2,08 2,08 2,03 2,03	1850 1745 2230 2130 3250 3050 2805 2570
K 447C K 649C KRMT 649C		☐1,6 m ☐2 m ☐2 m	3,45 3,57 3,57	1,67 2,07 2,1	1,62 2,03 2,08	1360 1985 2450
Pieds de scellement / Verankerungsfüße Fixing angles / Pie de empotramiento Montante da annegare / Angulos fixadores анкера		P 41A P 62B	0,37 0,65	0,37 0,65	1,14 1,27	135 295
Mât-châssis / Grundmasteinheit Basic mast unit / Tramo-chasis Elemento base / Tramo-chassis Мачта для крепления к шасси		S 41A V 60A	3,63 5,01	1,96 2,41	2,08 2,41	2965 4390
Haubans / Mastabstützungen Struts / Tornapuntas Puntoni / Escoras Растяжка		S 41A V 60A	3,18 4,51	0,26 0,29	0,24 0,29	220 420
Sommier / Unterwagenhälfte Half-bearer / Testero Testata / Estrutura base Траверса		S 41A V 60A	5,1 6,7	0,6 0,7	1,78 2,31	1145 1600

Mécanismes / Triebwerke / Mechanisms / Mecanismos / Meccanismi
Mecanismos / Механизмы

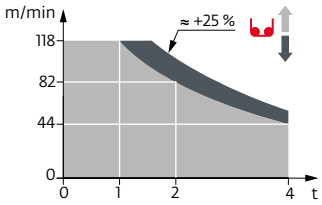
400 V - 50 Hz											ch - PS hp	kW	
	33 LVF 20 Optima	m/min	26	34	50	71	13	17	25	35,5	33	22	469 m
		t	4	3	2	1	8	6	4	2			
	50 LVF 20 Optima	m/min	44	58	82	118	22	29	41	59	50	37	697 m
		t	4	3	2	1	8	6	4	2			
	40 VVH 80	min	2								40	30	
	RVF 152 Optima +	tr/min U/min rpm	0 → 0,8								2 x 5,5	2 x 4	

IEC 60204-32	kVA
400 V (+10% -10%) 50 Hz	33 LVF : 68 → 55 kVA 50 LVF : 82 kVA

33 LVF 20 Optima



50 LVF 20 Optima



	FR	DE	EN	ES	IT	PT	RU
C25 -D25	Profil de vent suivant EN 14439 C25-D25	Windbedingungen gemäss EN 14439 C25-D25	Wind conditions according to EN 14439 C25-D25	Conformidad de los condiciones de viento EN 14439 C25-D25	Condizioni del vento secondo EN 14439 C25-D25	Perfil de vento conforme EN 14439 C25-D25	Ветровой режим в соответствии с EN 14439 C25-D25
	Équipements standards	Standardausrüstungen	Standard equipment	Equipamiento de serie	Equipaggiamento standard	Equipamento de série	Стандартное оборудование
	Équipements optionnels	Sonderausrüstungen	Options	Equipamiento opcional	Equipaggiamento in opzione	Equipamento opcional	Дополнительное оборудование (опция)
	Réactions en service	Reaktionskräfte in Betrieb	Reactions in service	Reacciones en servicio	Reazioni in servizio	Reacções em serviço	Реакция при работе
	Réactions hors service	Reaktionskräfte außer Betrieb	Reactions out of service	Reacciones fuera de servicio	Reazioni fuori servizio	Reacções fora de serviço	Реакция в покое
A	Distance entre cadres	Abstand zwischen den Rahmen	Distance between collars	Distancia entra marcos	Distanza fra i telai	Distância entre quadros	Расстояние между рамками крепления
P	Poids de la grue (en service)	Krangewicht (in Betrieb)	Crane weight (in service)	Peso de la grúa (en servicio)	Peso della gru (in servizio	Peso da grua (em serviço)	Вес крана (при работе)
R	Réaction horizontale	Horizontalkräfte	Horizontal reaction	Reaccion horizontal	Reazione orizzontale	Reacção horizontal	Горизонтальные реакции
	Cadre d'ancrage serré	Fester Verankerungs-rahmen	Tightened anchorage frame	Marco de anclaje de apriete	Quadro di ancoraggio stretto	Quadro de amarração apertado	Прикрепленная анкерная рама
	Cadre d'ancrage desserré	Loser Verankerungs-rahmen	Loosened anchorage frame	Marco de anclaje de desapriete	Quadro di ancoraggio allentato	Quadro de amarração solto	Отсоединенная анкерная рама
	Poids de flèche	Auslegergewicht	Jib weight	Peso de flecha	Peso del braccio	Peso da lança	вес стрелы
	Poids total du lest	Ballast-Gesamtgewicht	Total ballast weight	Peso total del lastre	Peso totale della zavorra	Peso total do lastro	Общий вес балласта
	Axe articulation flèche	Auslegergelenks-achse	Jib articulation axis	Eje de articulación de la flecha	Perno di articolazione del braccio	Eixo de articulação da lança	Ось шарнира стрелы
	Position girouette	Windfreistellung	Weathervaning position	Posición veleta	Libera rotazione	Posição em cata-vento	Флюгер
	Camion 13,4 m	Lkw 13,4 m	Lorry 13,4 m	Camión 13,4 m	Camion 13,4 m	Camião 13,4 m	Грузовой автомобиль 13,4 м
	Conteneur High Cube 40', et/ou Flat Rack 20'	Container High Cube 40', und/oder Flat Rack 20'	Container High Cube 40', and/or Flat Rack 20'	Contenedor High Cube 40', y/o Flat Rack 20'	Container High Cube 40', e/o Flat Rack 20'	Contentor High Cube 40', e/ou Flat Rack 20'	40-футовый контейнер повышенной вместимости High Cube, и/или 20-футовая открытая платформа Flat Rack
	Levage	Heben	Hoisting	Elevación	Sollevamento	Elevação	Подъем
	Relevage	AL-Verstellen	Luffing	Izado	Brandeggio	Levantamento	Маховый подъем
	Orientation	Schwenken	Slewing	Orientación	Rotazione	Rotação	Поворот
	Translation	Kranfahren	Travelling	Traslación	Traslazione	Translação	Перемещение крана
kVA	Puissance requise	Erforderliche Leistung	Required power	Potencia Necesaria	Potenza richiesta	Potência Necessária	Потребляемая мощность
	Fonction Power Control : vitesses treuils adaptées à la puissance disponible	Funktion Power Control: Geschwindigkeiten der Triebwerke werden an die verfügbare Leistung angepasst	Power Control Function: winch speeds adapted to the available power	Función Power Control: marchas de los cabrestantes adaptadas a la potencia disponible	Funzione Power Control: velocità degli argani adattate alla potenza disponibile	Função Power Control: velocidades de guincho adaptadas à potência disponível	Функция контроля мощности Power Control: регулировка скорости лебедок в зависимости от доступной мощности
	Nous consulter	Auf Anfrage	Consult us	Consultarnos	Consultateci	Consultar-nos	Проконсультируйтесь у нас
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MRH 125

POTAIN® by Manitowoc

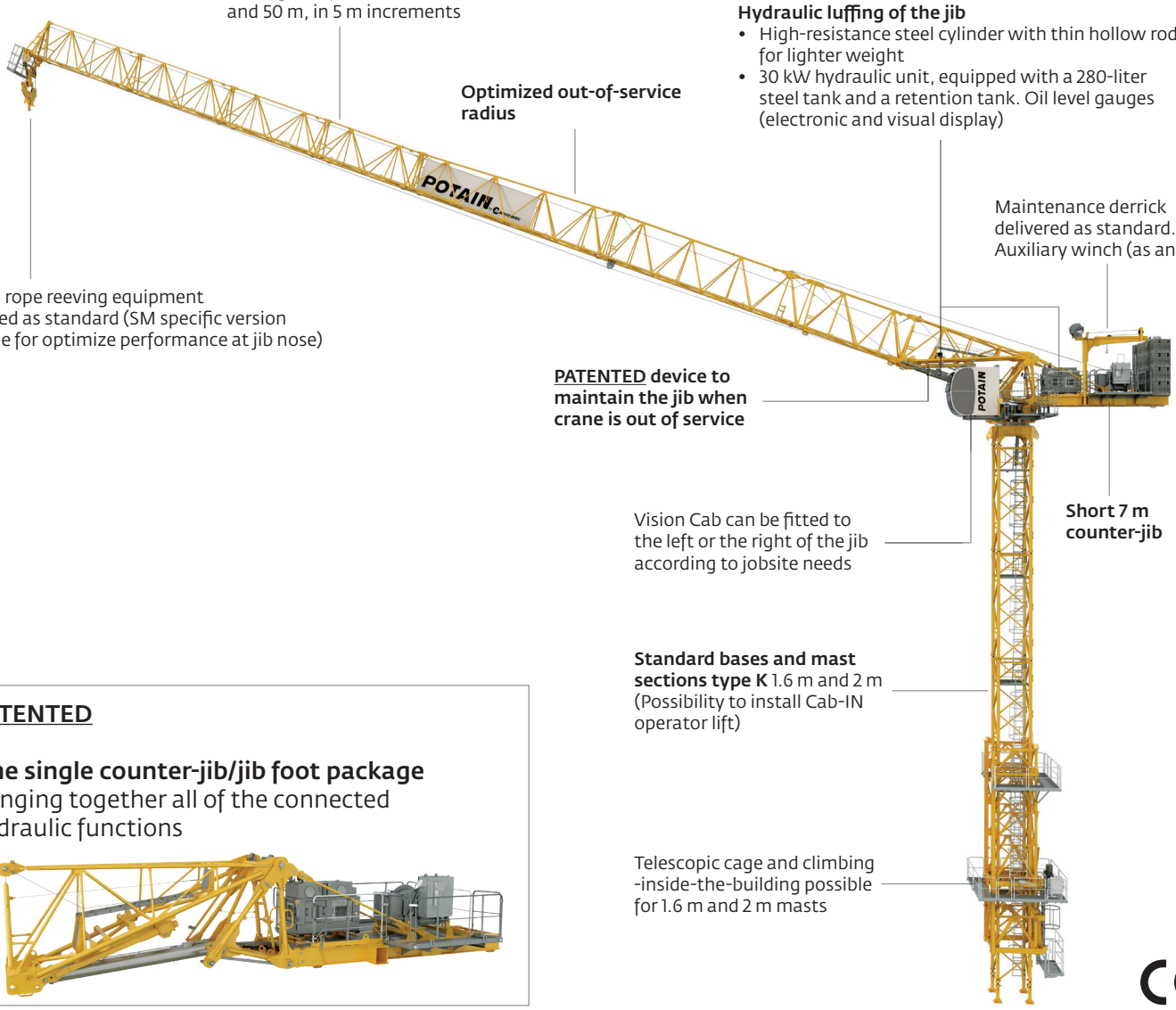
MRH 125

Hydraulic luffing jib crane

Maximum capacity: 8 t (8.8 USt)

Maximum radius: 50 m (164 ft)

Hoisting capacity at 50 m maximum radius: 2 t (2.2 USt)



PATENTED

One single counter-jib/jib foot package bringing together all of the connected hydraulic functions

CE

EXPERIENCE THE REVOLUTION AT:

WWW.MANITOWOC.COM

THE REVOLUTION IS REAL

MANITOWOC CRANES

MRH 125

THE FIRST POTAIN MRH

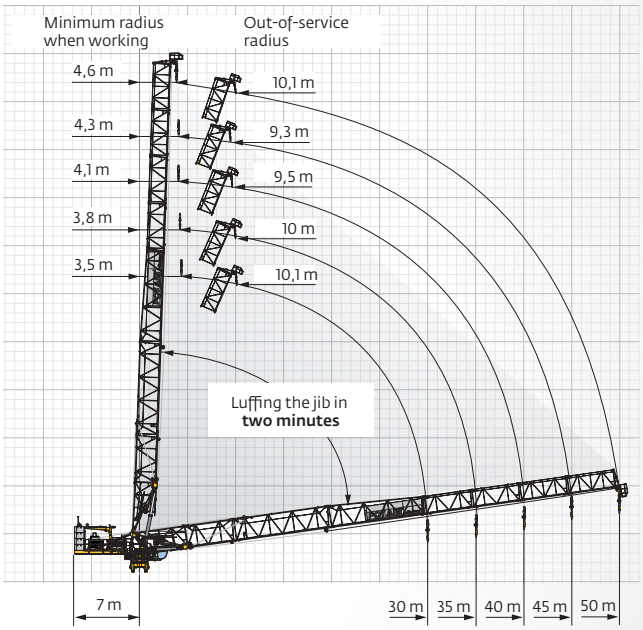
New generation of luffing jib cranes combining hydraulic jib hoisting technology with the Topless design

New technologies

- The Topless design with several elements making up the slewing crane part reduce the standard size and weight to make transport, handling, and fitting easier
- The VVH hydraulic system allows complete hoisting of the jib in two minutes:
  - Excellent handling of the jib regardless of the wind speed or direction
  - Hydraulic components offer a high level of reliability
  - Reduced maintenance

The perfect crane for confined areas

- Short and compact counter-jib (ballasts installed) with a rear slewing radius of just 7 m
- Almost vertical luffing jib for minimum space requirement when working
- Weathervaning radius optimized for each jib length, just 10 m for the 50 m jib, ideal for congested jobsites
- Option to fit the cab on the left-or right-hand side of the jib according to jobsite needs and especially to allow installation of the crane as close to the building as possible.



The fastest fitting of a luffing jib crane

- One single counter-jib/jib foot package bringing together all of the connected hydraulic functions. No inter-jobsite dismantling/fitting, compact and transportable in one package
- Maintenance derrick prefitted on the counter jib at the factory
- Wind-sail plates positioned in the same jib section for any jib length, installed at the factory: single configuration avoids operations and handling at the jobsite when changing jib length
- No installation of luffing rope thanks to an innovative hydraulic system: save fitting time compared to a traditional luffing system and increased safety

Optimized and economical transport

- Compact size and limited weight of each of the crane elements
- Use of standard containers and trucks provides reduced transportation costs
- Only 4 containers or 4 trucks for transportation of the whole slewing crane part with a 50 m jib

Optimized return on investment

- Luffing jib crane adapted to very tight urban jobsites
- Economical transport, easy and adapted to the fitting sequences
- Fitting/dismantling time reduced through a design combining the Topless concept with hydraulic luffing technology
- Improved fitting safety
- Mast section fleet management optimized through reuse of mast sections type K 1.6 m and 2 m

Manitowoc®

This document is non-contractual. Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment and price changes without notice. Illustrations shown are subject to modification and may include optional equipment and accessories, or may not include all standard equipment.

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